

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/540861	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/08/15 11:28
S2	1	"2002230054"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/08/15 11:42
S3	3	"2002230054"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 13:37
S4	43	@ad<"20021227" and (v-cad or (v adj cad) or vcad)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:55
S5	0	@ad<"20021227" and (numerical with analysis with flow with field with (non adj (compressive or compressible)) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:57
S6	0	@ad<"20021227" and (numerical with analysis with flow with field) and ((non adj3 (compressive or compressible)) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 14:58
S7	5	@ad<"20021227" and (numerical with analysis with flow with field) and ((compressive or compressible) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:00
S8	10	@ad<"20021227" and (numerical with analysis with flow) and ((compressive or compressible) with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:03

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S9	5	S8 not S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:00
S10	126	@ad<"20021227" and (numerical with analysis with flow) and fluid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:03
S11	41	@ad<"20021227" and (numerical with analysis with flow with fluid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 11:54
S12	3	S11 and ((non adj (compressible or compressive)) or incompressible or incompressive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:11
S13	1	10/834896	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:12
S14	12	10/105138	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/15 15:12
S15	2	10/058905	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 15:10
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[book] **High-Order Methods for Incompressible Fluid Flow - all 5 versions »**

MO Deville, PF Fischer, EH Mund - 2002 - books.google.com

... and Constitutive Equations 71.6 **Fluid Flow** Equations and ... 6.8.3 Unsteady **Flow** in Arteriovenous Grafts ... of eigenvalues for **second-order diffusion** operator, —u ...

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... -factor splitting method for time-dependent problems: Application to **incompressible fluid flow - all 6 versions »**

Y Maday, AT Patera, EM Rønquist - Journal of Scientific Computing, 1990 - Springer

... in (2.22) with g destroys the **second-order** accuracy of ... The equations governing the time-dependent **incompressible flow** of a ... The density of the **fluid** is taken to ...

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A PRESSURE-BASED METHOD FOR UNSTRUCTURED MESHES - all 2 versions »

SR Mathur, JY Murthy - Numerical Heat Transfer, Part B: Fundamentals, 1997 - informaworld.com

... focus of a considerable amount of computational **fluid** dynamics research ... If acceleration due to gravity r **diffusion** coefficient If mass **flow** rate on face f IJ. ...

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... -VOLUME FINITE-ELEMENT METHOD FOR MULTIDIMENSIONAL, **INCOMPRESSIBLE. FLUID FLOW-PART I: FORMULATION - all 4 versions**

»

HJ Saabas, BR Baliga - Numerical Heat Transfer, Part B: Fundamentals, 1994 - informaworld.com

... CVFEMs for two-dimensional **incompressible fluid** flows have ... reducing the false **diffusion**

that afflicts ... **pressure** distributions in **incompressible flow** problems [41 ...

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A Second-order time-accurate finite volume method for unsteady incompressible flow on hybrid ... - all 7 versions »

D Kim, H Choi - Journal of Computational Physics, 2000 - tfc.snu.ac.kr

... a first-order (forward **Euler**) **pressure-** correction method ... is to develop a new **second-order** time-accurate ... for calculating unsteady **incompressible flow** on hybrid ...

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CONTROL VOLUME FINITE-ELEMENT METHOD FOR HEAT TRANSFER AND FLUID FLOW USING COLOCATED VARIABLES—1. ... - all 6 versions

»

GE Schneider, MJ Raw - Numerical Heat Transfer, Part A: Applications, 1987 - informaworld.com

... conservation of mass for an **incompressible fluid** in two ... are plagued with excessive false **diffusion** and consequently ... the effects of the **fluid flow** physics on the ...

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[Lattice Boltzmann method for fluid flows - all 11 versions »](#)

S Chen, GD Doolen - Annual Review of **Fluid** Mechanics, 1998 - Annual Reviews
... for viscous Burgers' equation and advection-**diffusion** system. ... model the macroscopic
transport from microscopic **fluid** dynamics ... P/L, and the volume **flow** rate per ...

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[BOOK] Numerical computation of internal & external flows: fundamentals of numerical discretization - all 2 versions »

C Hirsch - 1988 - John Wiley & Sons, Inc. New York, NY, USA

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An accurate Cartesian grid method for viscous **incompressible** flows with complex immersed boundaries - all 10 versions »

T Ye, R Mittal, HS Udaykumar, W Shyy - Journal of Computational Physics, 1999 - student.seas.gwu.edu

... that has been used successfully for **diffusion**-dominated solidification ... in the so-called volume-of-fluid (VOF) method ... two-way coupling between the **flow** and the ...

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... theory of semi-implicit projection methods for viscous incompressible flow and its implementation ... - all 4 versions »

PM Gresho - International Journal for Numerical Methods in Fluids, 1990 - doi.wiley.com

... that are carried by the **fluid**-typically observed as ... recommended to solve steady **flow** problems-advection ... implicit technique (implicit for **diffusion**, explicit for ...

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SOLA-VOF, A Solution Algorithm for Transient Fluid Flow with Multiple Free Boundaries - all 3 versions »

BD Nichols, CW Hirt, RS Hotchkiss - 1980 - osti.gov

... two-dimensional transient fluid flow with free boundaries.^The SOLA-VOF program, which is based on the concept of a fractional volume of fluid (VOF), is more ...

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A level set approach for computing solutions to incompressible two-phase flow - all 7 versions »

M Sussman, P Smereka, S Osher - Journal of Computational Physics, 1994 - portal.acm.org

... implicit dual time-stepping VOF method for ... Lowengrub, A surfactant-conserving volume-of-fluid method for ... Modeling three-dimensional multiphase flow using a ...

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... analysis of transient fluid flow with free surface using VOF(volume-of-fluid) method and adaptive ... - all 4 versions »

JH Jeong, DY Yang - International Journal for Numerical Methods in Fluids, 1998 - doi.wiley.com

... Meth. Fluids, 26: 1127±1154 (1998). FINITE ELEMENT ANALYSIS OF TRANSIENT FLUID FLOW

WITH FREE SURFACE USING VOF (VOLUME-OF-FLUID) METHOD AND ADAPTIVE GRID ...

Cited by 19 - [Related Articles](#) - [Web Search](#)
Numerical simulation of breakup of a viscous drop in simple shear flow through a volume-of-fluid ... - all 5 versions »

J Li - Physics of Fluids, 2000 - math.vt.edu

... between parallel plates. The subsequent flow is investigated numerically with a volume-of-fluid VOF method. The scheme incorporates ...

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Volume-of-fluid interface tracking with smoothed surface stress methods for three-dimensional flows - all 7 versions »

D Gueyffier, J Li, A Nadim, R Scardovelli, S ... - Journal of Computational Physics, 1999 - math.vt.edu

... An advantage of both VOF and level-set methods ... when they are stretched by the flow, and no ... uncontrolled reconnection that one gets with volume-of-fluid or level ...

Cited by 154 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
Direct numerical simulation of free-surface and interfacial flow - all 5 versions »

R Scardovelli, S Zaleski - Annual Review of Fluid Mechanics, 1999 - Annual Reviews

... In an incompressible flow, mass conservation is equivalent to ... Figure 10 The exact volume-of-fluid color function for a ... VOF methods have been known for several ...

Cited by 315 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
A hybrid finite-element-volume-of-fluid method for simulating free surface

flows and interfaces

F MASHAYEK, N ASHGRIZ - International journal for numerical methods in fluids, 1995 - cat.inist.fr

... boundary and the versatility of the **volume-of-fluid (VOF)** technique in ... The advantage of the **VOF** technique is that it ... is that in solving the **flow** equations, it ...

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M RUDMAN - International Journal for Numerical Methods in Fluids, 1997 - doi.wiley.com

... above a reference level is calculated offers a simple and robust method for simulating interfacial **flow** in both ... 9 the **volume of fluid (VOF)** method due to Hirt ...

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BG Thomas, L Zhang - ISIJ International, 2001 - ccc.me.uiuc.edu

... Wang et al studied the influence of wettability on the behavior of argon bubbles and fluid **flow**. ... Mathematical Modeling of Fluid **Flow** in Continuous Casting ...

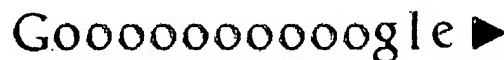
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PROST- A Parabolic Reconstruction Of Surface Tension for the **volume-of-fluid method - all 11 versions »**

Y Renardy, M Renardy - Journal of Computational Physics, 2002 - mathnet.kaist.ac.kr

... **Volume-of-fluid (VOF)** methods are popular for the direct numerical simulation of time-dependent viscous incompressible **flow** of multiple liquids. ...

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J Haidar, JJ Lowke - Journal of Physics D: Applied Physics, 1996 - iop.org
 ... using the fractional 'volume of fluid' (VOF) technique [12,13]. Input parameters required for the code are simply the arc current, gas flow rate, wire feed ...
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NS Kim, CG Kang - Journal of Materials Processing Tech., 2000 - Elsevier
 ... simulation of mold filling are SOLA-VOF (Solution Algorithm-Volume of Fluid), MAC (Marker ... no significant influence on the predicted flow patterns if ...
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S Muzaferija, M Perić - Numerical Heat Transfer, Part B: Fundamentals, 1997 - informaworld.com
 ... satisfied and is thus suitable for unsteady- as well as steady-flow problems. ... 1.
 CW Hirt and BD Nichols, Volume of Fluid (VOF) Method for the Dynamics of Free ...
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T Yabe, F Xiao, T Utsumi - Journal of Computational Physics, 2001 - mech.titech.ac.jp
 ... This method is a kind of semi-Lagrangian scheme and has been extended to treat incompressible flow in the framework of compressible fluid. ...
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M Rudman - International Journal for Numerical Methods in Fluids, 1998 - doi.wiley.com
 ... methods can be difficult to adapt to general interfacial flow simulations, primarily ... multifluid case have been developed, for example the SOLA-VOF algorithm of ...
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Temporal evolution of periodic disturbances in two-layer Couette flow - all 8 versions »

AV Coward, YY Renardy, M Renardy, JR Richards - Journal of Computational Physics, 1997 - math.vt.edu
 ... motivation for studying two-layer Couette flow front tracking [6-9] and volume tracking methods [10-12] which include the volume of fluid scheme. The VOF ...
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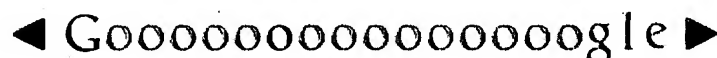
B Koren, MR Lewis, EH van Brummelen, B van Leer - Journal of Computational Physics, 2002 - cwi.nl

... 2. **FLOW MODEL** ... accurately resolve the interface location(s), a level-set approach [16] is more appropriate than the classical **volume-of-fluid (VOF)** approach [8 ...
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[book] [Level set methods and fast marching methods - all 7 versions »](#)
JA Sethian - 1999 - math.berkeley.edu
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[Analysis of flow between a wafer and pad during CMP processes - all 8 versions »](#)
C Rogers, J Coppeta, L Racz, A Philipossian, FB ... - Journal of Electronic Materials, 1998 - Springer
... the free surface of the slurry in front of the wafer (bow wave) is of interest, we used Fluent's **volume of fluid (VOF)** solver 9 to solve the **flow** of both air ...
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[A five-equation model for the simulation of interfaces between compressible fluids - all 5 versions »](#)
G Allaire, S Clerc, S Kokh - Journal of Computational Physics, 2002 - portal.acm.org
... Nichols, **Volume of fluid (VOF)** method for the dynamics of free boundaries, J. Comput. Phys. 39, 201 (1981). 11 Smadar Karni, Multicomponent **flow** calculations by ...
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 ... a review of the constrained **interpolation** profile (CIP ... been extended to treat incompressible **flow** in the ... other hand, incompressible schemes like **QUICK** or higher ...
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HY Yoon, S Koshizuka, Y Oka - International Journal for Numerical Methods in Fluids, 1999 - doi.wiley.com
 ... and the **volume of fluid** method (VOF) [14], the ... of the markers and the **volume of fluid** in each ... Considering the **flow** direction of each computing point (particle ...
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CR Maliska, JFV de Vasconcellos - Computer Methods in Applied Mechanics and Engineering, 2000 - Elsevier
 ... [3], the **volume of fluid** (VOF) technique of ... and the formulation allows the capture of the fountain **flow**. ... In the original VOF method the following equation is ...
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L Ma, PJ Ashworth, JL Best, L Elliott, DB Ingham, ... - Geomorphology, 2002 - Elsevier
 ... Therefore, in this paper, the **Volume of Fluid** Technique (VOF ... When the VOF technique is activated, the air ... to solve the governing fluid **flow** equations numerically ...
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T Iwasaki, K Nishimura, M Tanaka, Y Hagiwara - International Journal of Heat and Fluid Flow, 2001 - Elsevier
 ... In this paper, the modified **volume of fluid** (VOF) algorithm and ... the transverse direction to the **flow**, respectively ... finite-differencing of the **convection** and the ...
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 ... identify each fluid, and the **volume- of-fluid** (VOF) method, where ... Later implementations, including the VOF method, used first ... on fully resolving the **flow** and we ...

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M Rudman - International Journal for Numerical Methods in Fluids, 1998 - doi.wiley.com
... to adapt to general interfacial **flow** simulations, primarily ... developed, for example the SOLA-VOF algorithm of ... velocity **u**, piecewise linear **interpolation** of the ...

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The capturing of free surfaces in incompressible multi-fluid flows - all 4 versions »

D Pan, CH Chang - International Journal for Numerical Methods in Fluids, 2000 - doi.wiley.com

... surface is of practical importance in problems such as the thermocapillary **convection** in crystal growth, the liquid sloshing in tanks and the **flow** and heat ...

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Efficient solving method for unsteady incompressible interfacial flow problems - all 4 versions »

S Vincent, JP Caltagirone - International Journal for Numerical Methods in Fluids, 1999 - doi.wiley.com

... the interface with Cartesian grids is the **volume of fluid (VOF)** method (see ... To avoid the drawbacks of the marker and **VOF** methods, we ... **UNSTEADY INTERFACIAL FLOW** ...

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A volume-of-fluid computational technique for free surface flow problems/JF McKibben and CK Aidun. - all 4 versions »

JF McKibben, CK Aidun - 1993 - smartech.gatech.edu

... include those used in the **volume of fluid (VOF)** family of ... greatly extend the applicability of the **VOF** method to ... and solution of the potential **flow** equations in ...

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g destroys the **second-order** accuracy of ... 3. APPLICATION TO INCOMPRESSIBLE
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D Kim, H Choi - Journal of Computational Physics, 2000 - tfc.snu.ac.kr

... consider a semi-implicit scheme such as a **second-order Adams-Bashforth** method [1 ...
have been successfully applied to a variety of **incompressible flow** problems. ...

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[... projection scheme applied to pseudospectral methods for the incompressible Navier-Stokes equations - all 4 versions »](#)

S Hugues, A Randriamampianina - International Journal for Numerical Methods in Fluids,
1998 - doi.wiley.com

... methods associated with **second-order** Crank-Nicolson ... of the unsteady regularized
driven

cavity **flow**. ... on an algorithm named 'projection-diffusion', in which ...

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[von Neumann stability conditions for the convection-diffusion equation - all 7 versions »](#)

P WESSELING - IMA Journal of Numerical Analysis, 1996 - imajna.oxfordjournals.org

... implicit- explicit (IMEX: **diffusion** implicit, convection ... of the **second-order**
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PM Gresho - International Journal for Numerical Methods in Fluids, 1990 - doi.wiley.com

... that are carried by the **fluid**-typically observed as ... recommended to solve steady **flow**
problems-advection ... implicit technique (implicit for **diffusion**, explicit for ...

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T Ye, R Mittal, HS Udaykumar, W Shyy - Journal of Computational Physics, 1999 -
student.seas.gwu.edu

... in the so-called volume-of-fluid (VOF) method ... $v(x, t)$ on the boundary of the **flow**
domain where ... $n + 1$ through an intermediate advection-diffusion step where ...

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A model for the simulation of turbulent boundary layers in an incompressible stratified flow - all 7 versions »

DN Slinn, JJ Riley - Journal of Computational Physics, 1998 - coastal.ufl.edu
... Considering forced, dissipative, **incompressible flow** within the Boussinesq ... Here \vec{u} is the **fluid velocity**, g is ... κ are coefficients of **diffusion** of momentum ...

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... volume multigrid method to three-dimensional flow problems in a highly viscous fluid with a variable ... - all 3 versions »

RA Trompert, U Hansen - Geophysical & Astrophysical Fluid Dynamics, 1996 - informaworld.com

... in an infinite-Prandtl-number Boussinesq **fluid** in a ... have chosen an implicit treatment of the **diffusion** term in ... of the energy equation from the **flow** equations ...

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fluid flow AND diffusion AND "second order" incompressible Adams Bashforth

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